

RED HAT VIRTUALIZATION

DATASHEET

RED HAT VIRTUALIZATION AT A GLANCE

- Provides a complete enterprise virtualization solution for servers and technical workstations
- Combines the performance of Red Hat Virtualization with a comprehensive enterprise management interface
- Delivers record-setting performance and scalability with unmatched consolidation ratios¹
- Built from open standards and application programming interfaces (APIs) with an active community of contributors
- Provides the lowest total cost of ownership among enterprise virtualization platforms²
- Pairs with a complete portfolio of training and consulting services

PRODUCT OVERVIEW

Red Hat® Virtualization is a complete infrastructure solution for virtualized servers and technical workstations. Built on the powerful Red Hat Enterprise Linux® platform, Red Hat Virtualization provides ease of use, agility, and security for virtualized, resource-intensive workloads. It helps organizations optimize their IT infrastructure with better performance, competitive pricing, and a trusted Red Hat environment.

With Red Hat Virtualization, you can:

- Virtualize any Linux or Windows application.
- Standardize compute, storage, and networking resources.
- Improve workload performance and efficiency.
- Improve application density and use rates of existing servers.
- Deploy an agile environment to bring products to market faster.
- Improve the performance of—while reducing the costs associated with—high-performing Linux workstations.
- Build a foundation for bimodal IT by sharing services with Red Hat OpenStack® Platform.

FEATURES AND BENEFITS

Red Hat Virtualization can be deployed on top of your existing infrastructure and easily integrates with other Red Hat and Red Hat partner products—all of which helps customers to bring modern applications to market faster.



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¹ Red Hat Virtualization performance: SPECvirt benchmark. redhat.com/en/resources/red-hat-virtualization-performance-specvirt-benchmark.

² Red Hat Enterprise Virtualization versus VMware vSphere competitive pricing review. redhat.com/en/resources/red-hat-enterprise-virtualization-versus-vmware-vsphere-competitive-pricing-review.

“We see a clear ROI [return on investment] from our use of Red Hat Virtualization, not only from the hardware savings, but also from personnel efficiencies due to how fast we can spin up clusters and deploy virtual machines. And our software licensing costs are dramatically less with Red Hat Virtualization as well.”

LEAD ENGINEER,
UNIX/LINUX ENGINEERING GROUP,
QUALCOMM

“As an operation that functions 365 days a year with a plane always in the sky, high availability is key for the safety of our operation and ultimately our customers. Red Hat Virtualization now enables us to have a single-pane view to what is going on in the whole environment, which we didn’t have before.”

RICHARD DAWSON,
A UNIX AND LINUX
INFRASTRUCTURE CONSULTANT
AT BRITISH AIRWAYS

<p>Centralized management</p>	<ul style="list-style-type: none"> • Red Hat Virtualization Manager provides a centralized management system with a search-driven graphical user interface. • A system dashboard provides access to detailed information, including a global-use overview of central processing units (CPUs), memory, and storage host resources. • A self-hosted engine provides built-in high availability for Red Hat Virtualization Manager, which is deployed as a virtual appliance.
<p>Security and hardening</p>	<ul style="list-style-type: none"> • Secure virtualization (sVirt) and Security-Enhanced Linux (SELinux) technologies—both inherited from Red Hat Enterprise Linux—are incorporated to secure and harden the hypervisor against attacks aimed at the host or virtual machines (VMs).
<p>Highly available resources</p>	<ul style="list-style-type: none"> • VMs can be configured for high availability in case of host failure. • Hosts can be configured for power- and/or storage-based fencing for high availability. • Red Hat Virtualization fully supports third-party tools through a Representational State Transfer (REST) application programming interface (API) that backs up, restores, and replicates VMs and infrastructure data.
<p>Automation and integration</p>	<ul style="list-style-type: none"> • Red Hat CloudForms integrates with Red Hat Virtualization to automate and orchestrate virtual events and provide reporting, chargeback, self-service portals, and compliance enforcement. • Red Hat Virtualization integrates with OpenStack Glance and Neutron to ease traditional workload migration to private clouds—or to design applications that span virtual and private cloud environments. • Integration with Red Hat Ansible® Automation streamlines administration and operations for virtualization administrators and engineers by configuring Red Hat Virtualization infrastructure and resources, such as hosts, VMs, networks, and storage. • Red Hat Virtualization natively supports Red Hat Gluster Storage, and Gluster Storage node management is available through the Red Hat Virtualization administrator portal. • A RESTful API automates management and programming configurations. • Simple Network Management Protocol (SNMP) allows Red Hat Virtualization Manager to integrate with third-party monitoring systems.

Workload management

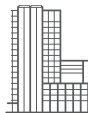
- An advanced service-level agreement manager allows administrators to define host and VM policies for underlying infrastructure resources, which can also be used to guarantee service quality.
- Additional memory and CPU resources can be added without disrupting applications.
- An oVirt optimizer automatically balances existing VMs within a cluster.

Cross-platform support

- Full support is provided for Red Hat Enterprise Linux 5, 6 (32- and 64-bit), and 7 (64-bit).
- Support is available for Windows Server 2008, 2008 R2, 2012 (32- and 64-bit), and 2016, as well as desktop systems Windows 7 and 10 (32- and 64-bit).
- Vendor support is provided for SUSE Linux Enterprise Server 10, 11, and 12.

Migrate from other platforms

- Red Hat Virtualization Manager—or a command-line tool—can help migrate workloads from VMware vCenter to Red Hat Virtualization.



ABOUT RED HAT

Red Hat is the world's leading provider of open source software solutions, using a community-powered approach to provide reliable and high-performing cloud, Linux, middleware, storage, and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As a connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.



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